K010405

MAR 1 3 2001

510(k) 7230 Ultrasound Imaging System with TEI Biosound Esaote

510(k) Summary

The following safety and effectiveness summary has been prepared pursuant to requirement for 510(k) summaries specified in 21CFR¶807.92(a).

807.92(a)(1)

Submitter Information

Colleen Hittle, Official Correspondent

8000 Castleway Drive Indianapolis, IN 46250

Phone:

(317) 849-1916

Facsimile:

(317) 577-9070

Contact Person:

Colleen Hittle

Date:

February 5, 2001

807.92(a)(2)

Trade Name:

7230 Ultrasound Imaging System with TEI

Common Name:

Ultrasound Imaging System

Classification Name(s):

Ultrasonic pulsed doppler imaging system

892.1550

Classification Number:

90IYN

90IYO

807.92(a)(3)

Predicate Device(s)

Esaote

7230

K982444 + 994369

Additional Substantial Equivalence Information is provided in the following substantial Equivalence Comparison Table.

510(k) 7230 Ultrasound Imaging System Biosound Esaote

807.92(a)(5)

Intended Use(s)

Specific information about uses is provided in the operator's manual. Generally, the system is intended to be used by or under the direction of a physician for diagnostic imaging in cardiac, abdominal, peripheral vascular, fetal, neonatal head, small organs, pediatric, transrectal, and transvaginal applications.

Comparison Chart for Substantial Equivalence

General Characteristics	Esaote	Esaote		
General Characteristics	7230	7250 (Megas)		
Electrical Safety	IEC60601-1	IEC60601-1		
Ultrasound Safety	Track 3 (Acoustic Output	Track 3 (Acoustic Output		
Olitusouna Surety	Display)	Display)		
Intended Use				
Cardiac (Transthoracic)	YES	YES		
Cardiac (Transesophageal)	NO	YES		
Vascular	YES	YES		
Abdominal	YES	YES		
• Fetal	YES	YES		
Adult Transcranial	No	YES		
Neonatal Head/Small parts	YES	YES		
	YES (Sagittal & Transverse	YES (Sagittal & Transverse		
Endovaginal	Planes)	Planes)		
Endorectal	YES (Sagittal & Transverse	YES (Sagittal & Transverse		
• Endorectai	Planes)	Planes)		
Probe Technology				
Annular Array	No	YES		
Phased Array	YES	YES		
Linear array	YES	YES		
Convex Array	YES	YES		
Modes of operation	Fundamental and Harmonic	Fundamental and Harmonic		
Widdes of operation	Imaging, PW, CW, CFM	Imaging, PW, CW, CFM		
Imaging Frequencies	2.0, 2.5, 3.5, 5.0, 7.5, 10 MHz	2.0, 2.5, 3.5, 5.0, 7.5, 10 MHz		
CFM/Doppler Frequencies	2.0, 2.5, 3.3, 5.0 MHz	2.0, 2.5, 3.3, 5.0 MHz		
Biopsy Guidance	YES	YES		
Biopsy Intended Uses	General Purpose and	General Purpose and		
Biopsy interlaced cises	Transrectal /transvaginal	Transrectal /transvaginal		
Biopsy Line Depth marker	1 cm	1 cm		
Display Type	SVGA	SVGA		
Digital Archival Capabilities	YES	YES		
VCR / Page Printer	YES	YES		
M&A Capabilitles	Cardiac, Vascular, OB and	Cardiac, Vascular, OB and		
	general purpose measurements	general purpose measurements		



Food and Drug Administration 9200 Corporate Boulevard Rockville MD 20850

MAR 1 3 2001

Ms. Collen J. Hittle
Offical Correspondent
The Anson Group
7992 Castleway Drive
INDIANAPOLIS IN 46250

Re: K010405

Trade Name: 7230 Ultrasound Imaging System With TEI Regulatory Class: II/21 CFR 892.1550/21 CFR 892.1560

Product Code: 90 IYN/90 IYO

Dated: February 7, 2001 Received: February 12, 2001

Dear Ms. Hittle:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

This determination of substantial equivalence applies to the following transducers intended for use with the 7230 Ultrasound Imaging System, as described in your premarket notification:

Transducer Model Numbers:

PA220 PA121 PA122 PA023 CA621 LA522 LA523 TRT12 If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval) it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General (GMP) regulation (21 CFR Part 820) and that, through periodic QS inspections, the FDA will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, the Food and Drug Administration (FDA) may publish further announcements concerning your device in the Federal Register. *Please note*: this response to your premarket notification does not affect any obligation you may have under sections 531 and 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This determination of substantial equivalence is granted on the condition that prior to shipping the first device, you submit a postclearance special report. This report should contain complete information, including acoustic output measurements based on production line devices, requested in Appendix G, (enclosed) of the Center's September 30, 1997 "Information for Manufacturers Seeking Marketing Clearance of Diagnostic Ultrasound Systems and Transducers." If the special report is incomplete or contains unacceptable values (e.g., acoustic output greater than approved levels), then the 510(k) clearance may not apply to the production units which as a result may be considered adulterated or misbranded. The special report should reference the manufacturer's 510(k) number. It should be clearly and prominently marked "ADD-TO-FILE" and should be submitted in duplicate to:

Food and Drug Administration Center for Devices and Radiological Health Document Mail Center (HFZ-401) 9200 Corporate Boulevard Rockville, Maryland 20850

This letter will allow you to begin marketing your device as described in your premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus permits your device to proceed to market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4591. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597 or at its internet address "http://www.fda.gov/cdrh/dsmamain.html".

Page 3 – Ms. Collen J. Hittle

If you have any questions regarding the content of this letter, please contact Rodrigo C. Perez at (301) 594-1212.

Sincerely yours,

w

Daniel G. Schultz, M.D.

Acting Director, Division of Reproductive,

Abdominal and Radiological Devices

Office of Device Evaluation

Center for Devices and Radiological Health

Enclosure(s)

Mod.7230

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation											
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)		
Ophthalmic				ļ				ļ	ļ			
Fetal	\perp	N	N	N		N	N		[2]	N[3]		
Abdominal	<u> </u>	N	N	N		N	N		[2]	N[3]		
Intraoperative (specify)	1			ļ			<u> </u>					
Intraoperative Neurological												
Pediatric	<u> </u>	N	N	N _	N	N	N		[2]	N[3]		
Small Organ (specify) [1]	1_	N	N	<u> </u>	N	N	N		[2]			
Neonatal Cephalic		N	N	N	N	N	N		[2]			
Adult Cephalic			ļ		ļ							
Cardiac		N	N	N	N	N		<u> </u>	[2]	N[3]		
Transesophageal			ļ	<u> </u>				<u> </u>				
Transrectal	1_	N	N	N		N	N		[2]			
Transvaginal	\perp	N	N	N		N	N		[2]			
Transurethral				ļ								
Intravascular	\perp											
Peripheral Vascular		N	N	N	N	N	N		[2]	ļ		
Laparoscopic	1	_								ļ		
Musculo-skeletal			<u> </u>						_			
Conventional					ļ							
Musculoskeletal Superficial		_			ļ					<u> </u>		
Other (specify)				-	l							

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: [1] Small organs include Thyroid, Breast and Testicles. [2] Applicable combined modes:

B+M+PW+CW+CFM+PD. [3] Tissue Harmonic Imaging.

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Prescription Use (Per 21 CFR 801.109)	Short le Symm

(Division Sign-Off)
Division of Reproductive, Abdominal, ENT, and Radiological Devices

510(k) Number <u>KOIO405</u>

Transducer: PA220

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation											
Clinical Application	А	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)		
Ophthalmic						ļ			1			
Fetal	\perp			ļ								
Abdominal				ļ		ļ						
Intraoperative (specify)			ļ									
Intraoperative Neurological	_											
Pediatric	_	<u> </u>	<u> </u>									
Small Organ (specify)				ļ	<u> </u>			<u> </u>		ļ		
Neonatal Cephalic		<u> </u>		ļ	ļ							
Adult Cephalic	_		<u> </u>		ļ	_	ļ					
Cardiac	_	P	P	Р	P	P	-	<u> </u>	[1]	P[2]		
Transesophageal	\perp		ļ	 		<u> </u>						
Transrectal	_	_	-		<u> </u>							
Transvaginal	\perp	↓_	ـــــــ	-	<u> </u>							
Transurethral	1	<u> </u>	<u> </u>			<u> </u>				1		
Intravascular	4-	ـــــ	-		 							
Peripheral Vascular	\bot	1_	<u> </u>		<u> </u>					ļ		
Laparoscopic	_	-	-	-	ļ					-		
Musculo-skeletal		1	-	-			-			 		
Conventional	- -	\perp	-	<u> </u>	-	-				-		
Musculoskeletal Superficial		\perp	\bot	<u> </u>	<u> </u>	-						
Other (specify)		1										

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: [1] Applicable combined modes: B+M+PW+CW+CFM+PD. [2] Tissue Harmonic Imaging This probe has been previously cleared by FDA (K982444 and K994369).

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Prescription Use (Per 21 CFR 801.109)

Prescription Use___

(Division Sign-Off)

Division of Reproductive, Abdominal, ENT,

and Radiological Devices

510(k) Number KC1(465

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Transducer: PA121

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation									
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)
Ophthalmic										<u> </u>
Fetal				ļ	ļ		ļ			<u> </u>
Abdominal		N	N	N	N	N	N		<u> [ti] </u>	N[2]
Intraoperative (specify)	↓_		<u> </u>	ļ			ļ			
Intraoperative Neurological		<u> </u>	<u> </u>							
Pediatric	_	N	N	N	N	N	N		[1]	N[2]
Small Organ (specify)	\perp		ļ		ļ					
Neonatal Cephalic				ļ						
Adult Cephalic	1_		ļ	<u> </u>						
Cardiac		N	N	N	N	N				N[2]
Transesophageal		<u> </u>	_							
Transrectal	\perp	_								
Transvaginal										1
Transurethral	\perp	J				-				
Intravascular	_ _									
Peripheral Vascular	\perp	1_								
Laparoscopic	\perp	\bot		_						<u> </u>
Musculo-skeletal		1	\perp							
Conventional	_	1_								<u> </u>
Musculoskeletal Superficial	_	\perp	_							<u> </u>
Other (specify)				1						

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: [1] Applicable combined modes: B+M+PW+CW+CFM+PD. [2] Tissue Harmonic Imaging

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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)
Division of Reproductive, Abdominal, ENT, and Radiological Devices
510(k) Number Kolonical Control of the Control of the

Transducer: PA122

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation											
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)		
Ophthalmic							-	ļ				
Fetal	<u> </u>			ļ		ļ		<u> </u>				
Abdominal						-						
Intraoperative (specify)		_						ļ				
Intraoperative Neurological	_	<u> </u>		ļ								
Pediatric	1_	N	N	N	N	N	N		[1]			
Small Organ (specify)	<u> </u>			ļ	ļ	-						
Neonatal Cephalic	\perp	N	N_	N	N	N	N		[1]			
Adult Cephalic		<u> </u>		ļ			-					
Cardiac		N	N	N	N	N		ļ	[1]			
Transesophageal	1_	-	1		<u> </u>							
Transrectal	\perp	<u> </u>	<u> </u>		-							
Transvaginal	4	<u> </u>	_		ļ							
Transurethral	-	ļ	ļ							1		
Intravascular		igspace	ļ	<u> </u>						1		
Peripheral Vascular		N	N	N	N	N	N		[1]	ļ		
Laparoscopic	\downarrow	ļ	_	_								
Musculo-skeletal	+	-		-	-		-			ļ		
Conventional	\bot	-	+	-	-							
Musculoskeletal Superficial		4_	-	-		1		ļ ·				
Other (specify)												

N=new indication; P=previously cleared by FDA; E= added under Appendix E

 $Additional\ Comments;\ [1]\ Applicable\ combined\ modes;\ B+M+PW+CW+CFM+PD.$

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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal, ENT,

and Radiological Devices

Transducer: PA023

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation											
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)		
Ophthalmic						ļ		<u> </u>				
Fetal							ļ					
Abdominal				ļ								
Intraoperative (specify)				ļ	ļ							
Intraoperative Neurological												
Pediatric	╽.	N	N	N	N	N	N		[1]			
Small Organ (specify)	1_			<u> </u>								
Neonatal Cephalic	1_	N	N	N	N	N	N					
Adult Cephalic										ļ		
Cardiac	<u> </u>	N	N	N	N	N	N		[1]			
Transesophageal		_	<u> </u>	ļ						ļ		
Transrectal		<u> </u>		<u> </u>						ļ		
Transvaginal					ļ			ļ				
Transurethral			1					_		-		
Intravascular			<u> </u>							ļ		
Peripheral Vascular		N	N	N	N	N N	N			ļ		
Laparoscopic	_ _	1_	<u> </u>									
Musculo-skeletal	\perp		<u> </u>							 		
Conventional		<u> </u>	-	<u> </u>					_			
Musculoskeletal Superficial	\perp	_	1_	_						-		
Other (specify)		1	1	1								

N=new indication; P=previously cleared by FDA; E= added under Appendix E

 $Additional\ Comments:\ [1]\ Applicable\ combined\ modes:\ B+M+PW+CW+CFM+PD.$

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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal, ENT,

and Radiological Devices

510(k) Number <u>KOICHCS</u>

Transducer: CA621

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Ι						ode of Operatio	<u>on</u>		
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)
Ophthalmic	!		ļ	ļ		ļ		<u> </u>		
Fetal		N	N	N	N	N	N		[1]	N[2]
Abdominal		N	N	N	N	N	N:		[1]	N[2]
Intraoperative (specify)				<u> </u>				<u> </u>		
Intraoperative Neurological	<u> </u>		<u> </u>	ļ						
Pediatric	$oldsymbol{\perp}$									
Small Organ (specify)	\bot		<u> </u>							
Neonatal Cephalic				<u> </u>						
Adult Cephalic	\perp									
Cardiac	丄									
Transesophageal	1_		ļ							
Transrectal	\perp	<u> </u>								
Transvaginal	丄	<u> </u>								
Transurethral		<u> </u>								
Intravascular		ļ	<u> </u>							
Peripheral Vascular	\perp	<u> </u>				<u> </u>				
Laparoscopic				<u> </u>						
Musculo-skeletal	\perp	igsqcup								
Conventional	\perp		<u> </u>							
Musculoskeletal Superficial										
Other (specify)										

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: [1] Applicable combined modes: B+M+PW+CW+CFM+PD. [2] Tissue Harmonic Imaging

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Prescription Use (Per 21 CFR 801.109)

Prescription Use_____

(Division Sign-Off) 9
Division of Reproductive, Abdominal, ENT, and Radiological Devices

510(k) Number <u>KO10405</u>

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Transducer: LA522

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation											
Clinical Application	A	В	М	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)		
Ophthalmic				ļ					_			
Fetal												
Abdominal						<u> </u>	ļ	<u> </u>		<u> </u>		
Intraoperative (specify)						1						
Intraoperative Neurological								ļ	ļ			
Pediatric	1_								1			
Small Organ (specify) [1]		N	N	N		N	N		[2]	ļ		
Neonatal Cephalic	1			<u> </u>								
Adult Cephalic												
Cardiac				ļ	ļ							
Transesophageal										ļ		
Transrectal		<u> </u>			ļ							
Transvaginal							_					
Transurethral												
Intravascular		ļ	-									
Peripheral Vascular	\perp	N	N	N	N	N	N		[2]			
Laparoscopic		 		.					1			
Musculo-skeletal	_ _	_	_	-								
Conventional	\perp	\downarrow	_	-						<u> </u>		
Musculoskeletal Superficial	\bot	<u> </u>	_									
Other (specify)												

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: [1] Small organs include Thyroid, Breast and Testicles. [2] Applicable combined modes:

B+M+PW+CW+CFM+PD.

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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off) Division of Reproductive, Abdominal, ENT, and Radiological Devices

510(k) Number <u>KOIO+CS</u>

Transducer: LA523

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation										
Clinical Application	A	В	M	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)	
Ophthalmic											
Fetal						_					
Abdominal	\perp			ļ			1	ļ			
Intraoperative (specify)								ļ	_		
Intraoperative Neurological	1										
Pediatric	_	ļ	ļ	<u> </u>		<u> </u>				ļ	
Small Organ (specify) [1]	1.	N	N	N		N	И		[2]		
Neonatal Cephalic				<u> </u>							
Adult Cephalic	\bot		ļ				ļ	<u> </u>		ļ	
Cardiac	1_		<u> </u>		ļ						
Transesophageal		<u> </u>			ļ		1				
Transrectal	1	<u> </u>	ļ		1						
Transvaginal	_	<u> </u>		-	ļ				-		
Transurethral		ļ	1	ļ	ļ	<u> </u>					
Intravascular	_		ļ	ļ		ļ		-			
Peripheral Vascular	<u> </u>	N	N	N	N	N	N		[2]	1	
Laparoscopic		_	-	-							
Musculo-skeletal	\perp	<u> </u>		ļ <u>.</u>	-					<u> </u>	
Conventional	- -	 	_			-		_		-	
Musculoskeletal Superficial		_	1	.	<u> </u>	-				-	
Other (specify)	-		1	1	1		-				

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: [1] Small organs include Thyroid, Breast and Testicles. [2] Applicable combined modes: B+M+PW+CW+CFM+PD.

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Prescription Use (Per 21 CFR 801.109)

(Division Sign-Off)

Division of Reproductive, Abdominal, ENT,

and Radiological Devices

510(k) Number KOIOHOS

Transducer: TRT12

Intended Use: Diagnostic ultrasound imaging or fluid flow analysis of the human body as follows:

	Mode of Operation											
Clinical Application	A	В	M	PWD	CWD	Color Doppler	Amplitude Doppler	Color Velocity Imaging	Combined (specify)	Other (specify)		
Ophthalmic												
Fetal	L							-				
Abdominal	_						ļ		<u> </u>			
Intraoperative (specify)	_			<u> </u>	<u> </u>							
Intraoperative Neurological	\perp				ļ			 				
Pediatric	\perp				ļ			ļ				
Small Organ (specify)		ļ		<u> </u>	<u> </u>							
Neonatal Cephalic	<u> </u>	<u> </u>		<u> </u>	<u> </u>							
Adult Cephalic	_	ļ			<u> </u>			_				
Cardiac	1	<u> </u>	<u> </u>	<u> </u>	ļ					-		
Transesophageal	_											
Transrectal	_	P	Р	P	-	P	P		[1]	<u> </u>		
Transvaginal	\perp	P	P	P		Р	P		[1]	 		
Transurethral	-		_	<u> </u>	_		_	-		 		
Intravascular	_	-	<u> </u>	ļ						<u> </u>		
Peripheral Vascular	_	4_	-	-								
Laparoscopic		\perp	-		<u> </u>			_		<u> </u>		
Musculo-skeletal	_	1_		-	-							
Conventional	_	_	4		-							
Musculoskeletal Superficial	_	 	<u> </u>									
Other (specify)	- 1	-		1	1							

N=new indication; P=previously cleared by FDA; E= added under Appendix E

Additional Comments: This transducer has been previously cleared by FDA with the AU3 unit (K953716). [1]

 $Applicable \ combined \ modes: \ B+M+PW+CW+CFM+PD.$

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	Prescr	ription Use (Per 21 CFR 801.109)
		Said a byman
		(Division Sign-Off) Division of Reproductive, Abdominal, ENT, and Radiological Devices
Prescription Use		510%) Number 15010405